#### **HAZARDOUS WASTE PERMIT**

#### **Permit Number SC7 570 024 466**

Issue Date: July 29, 2009 Effective Date: August 29, 2009

Expiration Date: July 29, 2019 Last Modification Effective Date: November 25, 2013

#### This Permit is hereby issued to:

**Owner/Operator: Shaw Air Force Base** 

**Facility Contact: Jenyfer Johnson** 

Address: SAFB, South Carolina, 29152 Sumter County

Phone: (803) 895-5071

This Permit is for identification and corrective action for solid waste management units (SWMUs) and areas of concern (AOCs) located at Shaw Air Force Base, South Carolina.

This Permit is issued pursuant to Section 44-56-10 <u>et seq.</u> Regulation 61-79 of the 1976 South Carolina Code of Laws, as amended. The authority granted hereunder is subject to the requirements of the aforementioned laws and regulations and the attached conditions.

David Scaturo, P.E., P.G. Director Division of Waste Management Bureau of Land and Waste Management

This Permit is the property of the Bureau of Land and Waste Management and must be surrendered on demand. This signature page must be posted at all times in a conspicuous place on the premises.

# **Table of Permit Modifications**

# Shaw Air Force Base SC7 570 024 466 Sumter County

| Effective Date    | Class | Location              | Description of Change  |
|-------------------|-------|-----------------------|--|
| July 6, 2011      | III   | Appendix A, Table A-7 | Modification to the Corrective Action required for AOC F and AOC H |
| November 25, 2013 | III   | Appendix A, Table A-7 | Revised Remedy Selected for SWMU 2                                 |
| November 25, 2013 | III   | Appendix A, Table A-7 | Revised Remedy Selected for SWMU 50                                |
| November 25, 2013 | III   | Appendix A, Table A-7 | Revised Remedy Selected for SWMU 59                                |
| November 25, 2013 | III   | Appendix A, Table A-7 | Revised Remedy Selected for AOC D                                  |
| November 25, 2013 | III   | Appendix A, Table A-7 | Revised Remedy Selected for AOC K                                  |
| November 25, 2013 | III   | Appendix A, Table A-7 | Revised Remedy Selected for AOC M                                  |
| November 25, 2013 | III   | Appendix A, Table A-7 | Remedy Selection for AOC N   |
| November 25, 2013 | III   | Appendix A, Table A-7 | Remedy Selection for AOC O   |
| November 25, 2013 | III   | Appendix A, Table A-4 | Addition of New Site AOC P   |
| November 25, 2013 | III   | Appendix A, Table A-4 | Addition of New Site AOC Q   |
| November 25, 2013 | III   | Appendix A, Table A-4 | Addition of New Site AOC R   |
| November 25, 2013 | III   | Appendix A, Table A-4 | Addition of New Site AOC S   |
| November 25, 2013 | III   | Appendix A, Table A-1 | Addition of New Site AOC T   |
| November 25, 2013 | III   | Appendix A, Table A-4 | Addition of New Site AOC U   |
| November 25, 2013 | III   | Appendix A, Table A-1 | Addition of New Site AOC V   |
| November 25, 2013 | III   | Appendix A, Table A-7 | Changed Wording from Institutional Controls to Land Use Controls   |

| Effective Date    | Class | Location              | Description of Change  |
|-------------------|-------|-----------------------|--|
| November 25, 2013 | III   | Removed from Permit   | Removed Appendix Table A-8   |
| November 25, 2013 | III   | Appendix A, Table A-2 | Added AOC E to NFA table based on letter dated March 13, 2000  |
| November 25, 2013 | III   | Appendix A, Table A   | Addition of a table that lists all SWMUs and AOCs in the permit  |
| November 25, 2013 | III   | Appendix A, Table A-7 | Changed wording "SWMUs or AOCs" to "SWMUs and AOCs"  |
| November 25, 2013 | III   | Appendix A, Table A-7 | Added "RCR (8/17/2009)" to the <u>Corrective</u> <u>Action Document Selecting LUC</u> Column for SWMU 58 |
|                   | III   | Appendix A, Table A-4 | Addition of New Site SWMU 98   |
|                   | III   | Appendix A, Table A-4 | Addition of New Site SWMU 99   |
|                   | III   | Appendix A, Table A-5 | Addition of New Site SWMU 100  |
|                   | III   | Appendix A, Table A-7 | Revised Remedy Selected for AOC L  |
|                   | III   | Appendix A, Table A-2 | Remedy Selected for AOC P  |
|                   | III   | Appendix A, Table A-2 | Remedy Selected for AOC Q  |
|                   | III   | Appendix A, Table A-2 | Remedy Selected for AOC R  |
|                   | III   | Appendix A, Table A-2 | Remedy Selected for AOC S  |
|                   | III   | Appendix A, Table A-7 | Remedy Selected for AOC T  |
|                   | III   | Appendix A, Table A-2 | Remedy Selected for AOC U  |
|                   | I     | Appendix G            | Addition of figure showing the permitted facility boundary   |
|                   |       |                       |  |
|                   |       |                       |  |
|                   |       |                       |  |

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| Appendix B - RCRA Facility Investigation (RFI) Workplan Outline                        |      |    |
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# **APPENDICES**

#### **APPENDIX A**

#### SOLID WASTE MANAGEMENT UNITS AND AREAS OF CONCERN SUMMARY

Solid Waste Management Unit and Area of Concern numbers and descriptions correspond with those noted in the RCRA Facility Assessment (RFA) Report.

- Table A: Summary list of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs)
- Table A-1: SWMUs and AOCs Requiring a RCRA Facility Investigation (RFI)
- Table A-2: SWMUs and AOCs Requiring No Further Action (NFA) at this time
- Table A-3: Permitted Units Clean Closed under RCRA
- Table A-4: SWMUs and AOCs Requiring Confirmatory Sampling (CS)
- Table A-5: SWMUs and AOCs Regulated under Subtitle I of RCRA
- Table A-6: SWMUs and AOCs for which a remedy has been selected but not completed
- Table A-7: SWMUs or AOCs that Require Land Use Controls (LUCs)

| Table A   |   |  |
|---|---|--|
| Summary list of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs): |   |  |
| SWMU No. / AOC Letter   | Description of SWMU / AOC                       |  |
| SWMU #1   | Waste Water Treatment Plant                     |  |
| SWMU #2   | Former Leaking Underground JP-4 Fuel Tank       |  |
| SWMU #3   | JP-4 Fuel/Water Air Stripper                    |  |
| SWMU #'s 4-23   | Waste Oil Accumulation Tanks/Drums              |  |
| SWMU #6   | Building 325 Oil Accumulation Tank              |  |
| SWMU #'s 24-29  | Oil Water Separators                            |  |
| SWMU #'s 30 and 31  | Building 325 Oil Water Separators               |  |
| SWMU #'s 32-48  | Oil Water Separators                            |  |
| SWMU # 49   | JP-4 Spill Area at Rail Siding                  |  |
| SWMU # 50   | Fuel Tank Sludge Burial Site                    |  |
| SWMU # 51   | Underground Hydrazide Units Waste Holding Tanks |  |
| SWMU # 52   | Former Landfill No. 1                           |  |
| SWMU # 53   | Spent Munitions Carrier (2)                     |  |
| SWMU # 54   | Fire Training Area No. 3                        |  |
| SWMU # 55   | Former Fire Training Area No. 2                 |  |
| SWMU # 56   | Former Land Spreading Sludge Area               |  |
| SWMU # 57   | Pyromizer Incinerator                           |  |
| SWMU # 58   | Former Landfill No. 3                           |  |
| SWMU # 59   | Former Fire Training Area No. 1                 |  |
| SWMU #'s 60-70  | Hazardous Waste Accumulation Areas              |  |
| SWMU #'s 71-76  | Downdraft Paint Spray Booths                    |  |
| SWMU # 77   | Wash Water Paint Spray Booth                    |  |
| SWMU # 78   | Building 325 Vehicle Maintenance Area           |  |

| Table A Summary list of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs): |   |  |
|---|---|--|
| SWMU No. / AOC Letter   | Description of SWMU / AOC                               |  |
| SWMU # 79   | Battery Neutralization Tank                             |  |
| SWMU # 80   | Omniclean/Safety Kleen Units (11)                       |  |
| SWMU # 81   | Woodworking Shop Dust Cyclone                           |  |
| SWMU # 82   | Building 300 Entomology Shop Wash Drain Area            |  |
| SWMU # 83   | Inert Landfill (4)                                      |  |
| SWMU # 84   | Former Fire-In Bunker                                   |  |
| SWMU # 85   | Former Landfill No. 2                                   |  |
| SWMU # 86   | Former Classified Document Incinerator                  |  |
| SWMU # 87   | Former Underground Waste Oil Tanks (2)                  |  |
| SWMU # 88   | Former Coal Storage Area                                |  |
| SWMU # 89   | Hazardous Waste Storage Building 31                     |  |
| SWMU # 90   | Discarded Battery Storage                               |  |
| SWMU # 91   | Former Underground Heating Oil Tanks Contamination Area |  |
| SWMU # 92   | Base EOD Training Area                                  |  |
| SWMU # 93   | Waste Oil Separator Tank                                |  |
| SWMU # 94   | Former Entomology Shops Storm Drains                    |  |
| SWMU # 95   | Former and Present Drain Field Areas                    |  |
| SWMU # 96   | Building 1602 Oil Water Separator                       |  |
| SWMU # 97   | Central Accumulation Point                              |  |
| SWMU # 98   | Building 1200   |  |
| SWMU # 99   | Building 1610/1612                                      |  |
| SWMU # 100  | Building 326  |  |

| Table A   |   |  |
|---|---|--|
| Summary list of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs): |   |  |
| SWMU No. / AOC Letter   | Description of SWMU / AOC                             |  |
| AOC 32  | Former Waste Pit Near SWMU 59                         |  |
| AOC A   | North Ditch Storm Drainage Discharge                  |  |
| AOC B   | South Ditch Storm Drainage Discharge                  |  |
| AOC C   | Battery Acid Spill Site                               |  |
| AOC D   | Lang Syne Investigation                               |  |
| AOC E   | Building 337 Spill Site                               |  |
| AOC F   | TCE Groundwater Contamination                         |  |
| AOC G   | Building 601 - Former Paint Storage                   |  |
| AOC H   | Chlorinated Solvent Groundwater Contamination         |  |
| AOC I   | Building 1128 UST                                     |  |
| AOC J   | Building 205 UST                                      |  |
| AOC K   | Aeroclub Leaking JP-4 UST                             |  |
| AOC L   | Building 706/1200 Oil Water Separator Overflow        |  |
| AOC M   | Building 1613 Leaking Fuel Line                       |  |
| AOC N   | Aircraft Parking Apron - North End                    |  |
| AOC O   | Shallow Lang Syne Investigation                       |  |
| AOC P   | Outdoor Parts Preservation Area- Building 1517        |  |
| AOC Q   | Munitions Storage Area – Concrete UST                 |  |
| AOC R   | Heating Oil UST – Building 901                        |  |
| AOC S   | Oil/Water Separator – Building 1506                   |  |
| AOC T   | Jet Fuel Storage Area – Building 1720                 |  |
| AOC U   | Old DRMO Site – Excluding Building 31                 |  |
| AOC V   | Soil Contamination After B-1127 Fuel Oil Tank Removal |  |

| Table A-1 SWMUs and AOCs Requiring a RCRA Facility Investigation (RFI): |   |  |
|---|---|--|
| SWMU No. / AOC Letter   | Description of SWMU / AOC                             |  |
| AOC V   | Soil Contamination After B-1127 Fuel Oil Tank Removal |  |

| Table A-2 SWMUs and AOCs Requiring No Further Action (NFA) at this time: |   |  |
|--|---|--|
| SWMU No. / AOC Letter  | Description of SWMU / AOC                       |  |
| SWMU #1  | Waste Water Treatment Plant                     |  |
| SWMU #3  | JP-4 Fuel/Water Air Stripper                    |  |
| SWMU #'s 4-23  | Waste Oil Accumulation Tanks/Drums              |  |
| SWMU #6  | Building 325 Oil Accumulation Tank              |  |
| SWMU #'s 24-29   | Oil Water Separators                            |  |
| SWMU #'s 30 and 31   | Building 325 Oil Water Separators               |  |
| SWMU #'s 32-48   | Oil Water Separators                            |  |
| SWMU # 49  | JP-4 Spill Area at Rail Siding                  |  |
| SWMU # 51  | Underground Hydrazine Units Waste Holding Tanks |  |
| SWMU # 53  | Spent Munitions Carrier (2)                     |  |
| SWMU # 54  | Fire Training Area No. 3                        |  |
| SWMU # 55  | Former Fire Training Area No. 2                 |  |
| SWMU # 56  | Former Land Spreading Sludge Area               |  |
| SWMU # 57  | Pyromizer Incinerator                           |  |
| SWMU #'s 60-70   | Hazardous Waste Accumulation Areas              |  |
| SWMU #'s 71-76   | Downdraft Paint Spray Booths                    |  |
| SWMU # 77  | Wash Water Paint Spray Booth                    |  |
| SWMU # 79  | Battery Neutralization Tank                     |  |
| SWMU # 80  | Omniclean/Safety Kleen Units (11)               |  |

| Table A-2 SWMUs and AOCs Requiring No Further Action (NFA) at this time: |   |  |
|--|---|--|
| SWMU No. / AOC Letter  | Description of SWMU / AOC                               |  |
| SWMU # 81  | Woodworking Shop Dust Cyclone                           |  |
| SWMU # 82  | Building 300 Entomology Shop Wash Drain Area            |  |
| SWMU # 83  | Inert Landfill (4)                                      |  |
| SWMU # 84  | Former Fire-In Bunker                                   |  |
| SWMU # 86  | Former Classified Document Incinerator                  |  |
| SWMU # 88  | Former Coal Storage Area                                |  |
| SWMU # 90  | Discarded Battery Storage                               |  |
| SWMU # 91  | Former Underground Heating Oil Tanks Contamination Area |  |
| SWMU # 92  | Base EOD Training Area                                  |  |
| SWMU # 93  | Waste Oil Separator Tank                                |  |
| SWMU # 94  | Former Entomology Shops Storm Drains                    |  |
| SWMU # 95  | Former and Present Drain Field Areas                    |  |
| AOC A  | North Ditch Storm Drainage Discharge                    |  |
| AOC B  | South Ditch Storm Drainage Discharge                    |  |
| AOC C  | Battery Acid Spill Site                                 |  |
| AOC E  | Building 337 Spill Site                                 |  |
| AOC G  | Building 601 - Former Paint Storage                     |  |
| AOC I  | Building 1128 UST                                       |  |
| AOC J  | Building 205 UST  |  |
| AOC P  | Outdoor Parts Preservation Area- Building 1517          |  |
| AOC Q  | Munitions Storage Area – Concrete UST                   |  |
| AOC R  | Heating Oil UST – Building 901                          |  |
| AOC S  | Oil/Water Separator – Building 1506                     |  |
| AOC U  | Old DRMO Site – Excluding Building 31                   |  |

| Table A-3 Permitted Units Clean Closed under RCRA: |                                     |  |
|--|-------------------------------------|--|
| SWMU No. / AOC Letter                              | Description of SWMU / AOC           |  |
| SWMU # 89  | Hazardous Waste Storage Building 31 |  |

| Table A-4 SWMUs and AOCs Requiring Confirmatory Sampling (CS): |                            |  |
|--|----------------------------|--|
| SWMU No. / AOC Letter  | Description of SWMU / AOC  |  |
| SWMU # 97  | Central Accumulation Point |  |
| SWMU # 98  | Building 1200              |  |
| SWMU # 99  | Building 1610/1612         |  |

| Table A-5 SWMUs and AOCs Regulated under Subtitle I of RCRA: |                           |  |
|--|---------------------------|--|
| SWMU No. / AOC Letter  | Description of SWMU / AOC |  |
| SWMU # 100   | Building 326              |  |

| Table A-6 SWMUs and AOCs for which a remedy has been selected but not completed: |                               |  |  |  |
|--|-------------------------------|--|--|--|
| SWMU No. / AOC Letter Description of SWMU / AOC                                  |                               |  |  |  |
| AOC 32   | Former Waste Pit Near SWMU 59 |  |  |  |

## **SWMUs or AOCs that Require Land Use Controls (LUCs):**

| SWMU No.<br>/ AOC<br>Letter | Description of<br>SWMU / AOC                     | Description of<br>Corrective Action   | Description of LUC  | Corrective Action Document Selecting LUC |
|-----------------------------|--|---|---|--|
| SWMU #2                     | Former Leaking<br>Underground JP-<br>4 Fuel Tank | Groundwater: - Vacuum Enhanced Pumping with Surfactant Enhanced Aquifer Remediation - In-situ Chemical Oxidation - Long Term Monitoring | - GW Use<br>Restrictions<br>- Land Use<br>Change<br>Notification  | (2/18/2009)  Revised CMS (4/26/2013)     |
| SWMU # 50                   | Fuel Tank<br>Sludge Burial<br>Site               | Groundwater:  - Vacuum Enhanced Pumping with SEAR  - In-situ Chemical Oxidation  - Long Term Monitoring                                 | - GW Use<br>Restrictions  - Land Use<br>Change<br>Notification  | (2/18/2009)  Revised CMS (4/26/2013)     |
| SWMU # 52                   | Former Landfill<br>No. 1                         | Soil: - Cap Stabilization Groundwater: - Long Term Monitoring   | <ul><li>Inspect and<br/>Maintain Cap</li><li>Maintain</li><li>Fencing</li><li>GW Use<br/>Restrictions</li></ul> | RFI (8/21/1995)                          |

## **SWMUs and AOCs that Require Land Use Controls (LUCs):**

| SWMU No.<br>/ AOC<br>Letter | Description of<br>SWMU / AOC                   | Description of<br>Corrective Action  | Description of LUC  | Corrective Action Document Selecting LUC |
|-----------------------------|--|--|---|--|
| SWMU # 58                   | Former Landfill No. 3                          | Soil: - Cap Stabilization Groundwater: - Long Term Monitoring                    | - Inspect and Maintain Cap - Maintain Fencing - GW Use Restrictions   | CMS (2/24/1999)<br>RCR (8/17/2009)       |
| SWMU # 59                   | Former Fire<br>Training Area<br>No. 1          | Groundwater:  - Free Product Removal - In-situ Chemical                          | - Zoning<br>Restriction   | CMI<br>(11/14/2005)<br>Revised CMS       |
|                             |  | Oxidation - Permeable Reactive Barrier - Long Term Monitoring with MNA Component | Restrictions  | (6/28/2013)                              |
| SWMU # 78                   | Building 325<br>Vehicle<br>Maintenance<br>Area | Soil: - Removal Action  Groundwater: - Long Term Monitoring                      | - Notification to<br>Property Owners<br>- GW Monitoring<br>- GW Use<br>Restrictions<br>- On-base Land<br>Use Change<br>Notification | CMS (5/19/2009)                          |

## **SWMUs or AOCs that Require Land Use Controls (LUCs):**

| SWMU No.<br>/ AOC<br>Letter | Description of<br>SWMU / AOC                    | Description of<br>Corrective Action   | Description of LUC  | Corrective Action Document Selecting LUC |
|-----------------------------|---|---|---|--|
| SWMU # 85                   | Former Landfill<br>No. 2                        | Soil: - Cap Stabilization Groundwater: - Long Term Monitoring                                       | <ul><li>Inspect and<br/>Maintain Cap</li><li>Maintain<br/>Fencing</li><li>GW Use<br/>Restrictions</li></ul> | RFI (5/23/1996)                          |
| SWMU # 87                   | Former<br>Underground<br>Waste Oil Tanks<br>(2) | Groundwater:  - Monitored Natural Attenuation   | - GW Use<br>Restrictions<br>- Land Use<br>Change<br>Notification  | Monitoring<br>Report<br>(8/10/2004)      |
| SWMU # 96                   | Building 1602<br>Oil Water<br>Separator         | Groundwater:  - In-situ Chemical Oxidation  - Long Term Monitoring  - Monitored Natural Attenuation | - GW Use<br>Restrictions  - Land Use<br>Change<br>Notification  | CMS/CMIWP<br>(12/21/2006)                |
| AOC D                       | Lang Syne<br>Investigation                      | Groundwater:  - In-situ Chemical Oxidation  - Long Term Monitoring                                  | - GW Use<br>Restrictions  | Revised CMS<br>(10/19/2011)              |

# **SWMUs or AOCs that Require Land Use Controls (LUCs):**

| SWMU No.<br>/ AOC<br>Letter | Description of<br>SWMU / AOC                        | Description of<br>Corrective Action  | Description of LUC       | Corrective Action Document Selecting LUC |
|-----------------------------|---|--|--------------------------|--|
| AOC F                       | TCE<br>Groundwater<br>Contamination                 | Groundwater: - Extraction and  | - Bilateral agreements   | CMS<br>(9/22/2006)                       |
|                             |   | Treatment  NOTE: Additional extraction wells will be added as needed to be determined by SCDHEC  | - GW Use<br>Restrictions |  |
|                             |   | - Long Term<br>Monitoring  |                          |  |
|                             |   | - An independent<br>review (equivalent to<br>a CERCLA five-year<br>review) of the<br>effectiveness of the<br>remedy every five<br>years beginning in<br>2011 |                          |  |
| AOC H                       | AOC H Chlorinated Solvent Groundwater Contamination | Groundwater: - In-situ Chemical Oxidation  | - Zoning<br>Restriction  | CMS<br>(6/29/2006)                       |
| Co                          |   | NOTE: Additional "hot<br>spots" treatment as<br>needed to be determined<br>by SCDHEC   | - GW Use<br>Restrictions |  |
|                             |   | - Extraction and Treatment  NOTE: Additional extraction wells will be added as needed to be determined by SCDHEC   |                          |  |

## **SWMUs or AOCs that Require Land Use Controls (LUCs):**

| SWMU No.<br>/ AOC<br>Letter | Description of<br>SWMU / AOC                            | Description of<br>Corrective Action   | Description of LUC   | Corrective Action Document Selecting LUC    |
|-----------------------------|---|---|--|---|
| AOC H continued             |   | - Long Term Monitoring  - An independent review (equivalent to a CERCLA five-year review) of the effectiveness of the remedy every five years beginning in 2011 |  |   |
| AOC K                       | Aeroclub<br>Leaking JP - 4<br>UST                       | Groundwater: - Vacuum Enhanced Pumping with Surfactant Enhanced Aquifer Remediation - Long Term Monitoring  | - GW Use<br>Restrictions<br>- Land Use<br>Change<br>Notification | (2/18/2009)  Revised CMS (4/26/2013)        |
| AOC L                       | Building<br>706/1200 Oil<br>Water Separator<br>Overflow | Groundwater: - In-situ Chemical Oxidation - Long Term Monitoring  | - GW Use<br>Restrictions<br>- Land Use<br>Change<br>Notification | (1/29/2009)  Statement of Basis (6/18/2014) |

## **SWMUs or AOCs that Require Land Use Controls (LUCs):**

| SWMU No.<br>/ AOC<br>Letter | Description of<br>SWMU / AOC                | Description of<br>Corrective Action   | Description of LUC   | Corrective Action Document Selecting LUC |
|-----------------------------|---|---|--|--|
| AOC M                       | Building 1613<br>Leaking Fuel<br>Line       | Groundwater: - In-situ Chemical Oxidation - Long Term Monitoring                            | - GW Use<br>Restrictions  - Land Use<br>Change<br>Notification | (2/2/2009)  Revised CMS (8/21/2013)      |
| AOC N                       | Aircraft Parking<br>Apron - North<br>End    | Groundwater: - In-situ Chemical Oxidation - Extraction and Treatment - Long Term Monitoring | - GW Use<br>Restrictions                                       | CMS (3/15/2013)                          |
| AOC O                       | Shallow Lang<br>Syne<br>Investigation       | Groundwater:  - In-situ Chemical Oxidation  - Long Term Monitoring                          | - GW Use<br>Restrictions                                       | CMS (3/15/2013)                          |
| AOC T                       | Jet Fuel Storage<br>Area – Building<br>1720 | - Confirmatory<br>sampling required at<br>time of site closure                              | - Land Use<br>Change<br>Notification                           | RFI (9/20/2013)                          |

# APPENDIX G The Facility Boundary Map

